Select arbitrary objects in images and save as sub images

The algorithm to select objects consists in surrounding by a closed line of black pixels a given feature of an image. Given an image, a black pen is provided so that moving the mouse you could define a region to select.

As an example, given the following image which contain many cells, we want to isolate each cell so that they can be analyzed individually.

In this image, only the cells marked by a red shape are surrounded by black pixel. These cell can be select and analyzed by right-click on the image, on the popup menu clock on “Toggle use of click mask on”, then right click on the cell surrounded by black pixels and the cell should appear in red. Then store the cell to any one of the categories A to E available. To stop selecting regions click again on Toggle use of click mask”. Click on “make a region black after store” if you want to erase from the image the region selected and stored. Click again to cancel the option.
Click on reset mask and now trace lines to separate cells as shown below.

You can see several cells that now have been separated. Store these cells and then continue after the entire image has been processed.

Notes: Cells that are at the same border should be separated by drawing a black line at the border. Turn off the “write labels” checkbox otherwise you will not be able to draw black lines.

You must reset the blacklines image otherwise the same blacklines will be used for the next image. Actually, this could be useful if you are doing a time lapse study and you want to separate the same cells.